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# CHAPTER II

## CULTURAL RESOURCES

### IDENTIFICATION AND EVALUATION

#### Introduction

This chapter summarizes the current status of cultural resources at Fort Belvoir by:

- presenting the natural setting and historic context that have determined the nature and distribution of installation's cultural resources;
- reviewing previous cultural resources investigations undertaken at the installation; and
- providing an overview and assessment of the archeological and architectural resources currently identified on the installation, including those listed in or eligible for listing in the National Register. The general and specific recommendations for program development presented in Chapter V are based partly upon the assessment contained in this chapter.

Supplementary information related to issues discussed in this chapter is contained in two appendices of this ICRMP. Fort Belvoir's development is organized chronologically regional and installation-specific prehistoric and historic contexts that provide an organizational framework and describe patterns or trends in history against which the significance of architectural and archeological resources or groups of resources is understood; Appendix II presents fully developed, regional prehistoric and historic contexts for the installation. In addition to considering a property's integrity, historic associations, architectural or engineering values, or information potential, the National Register Criteria for Evaluation (36 CFR 60.4 [a-d]) base assessments of the significance of cultural resources on their relationship to appropriate prehistoric or historic contexts.<sup>1</sup>

Complete forms for Fort Belvoir's National Register listed and eligible archeological and architectural resources are contained in Appendix III. The National Register of Historic Places lists districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture; such properties may be important on a local, state, or national level. Federal preservation law requires that resources listed in or eligible for listing in the National Register be considered in Fort Belvoir's current management procedures.

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## Natural and Cultural Setting: Fort Belvoir's Changing Landscape

### Geology and Topography

The Belvoir peninsula lies within the Atlantic Coastal Plain physiographic province, an area of unconsolidated Cretaceous sediments that represents an ancient riverine environment. Sediments consist primarily of deposits of sand, silt, clay, and gravel and are characterized by abrupt changes in rock formation.<sup>2</sup>

The installation is bounded on the south and east by the Potomac River and on the west by the Pohick Creek. Three watersheds -- Dogue, Accotink, and Pohick creeks -- drain the installation and discharge directly into the Potomac River. Accotink Creek flows through the middle of the installation in a south-southeasterly direction. The headwaters of some Dogue Creek tributaries rise within the Humphreys Engineer Center, and flow south past Woodlawn and River Villages before entering the Potomac. Pohick Creek drains the western portion of the installation, primarily Davison Airfield. Accotink and Pohick bays are small tidal estuaries that bracket the Southwest Area of the post, and flow into Gunston Cove, a major estuary of the Potomac River.<sup>3</sup>

Topography at the installation ranges from flat terrain along the streams to smooth uplands and V-shaped valleys that rise from the floodplains. However, three centuries of continuous agricultural activity followed by military engineering activities have modified many of the post's landforms. In particular, the crests of entire upland ridges were leveled to create areas suitable for construction of a large-scale military enclave. At present, elevations on the installation range from less than one foot above mean sea level (amsl) along the Potomac River shoreline to 230 feet amsl along Beulah Street between Woodlawn and Snyder roads. Steep slopes overlook the headwaters and tributaries of the three major drainages; construction activities on severe or unstable slopes are prohibited on Fort Belvoir.<sup>4</sup>

*Soils.* The soils at Fort Belvoir represent four associations, three of which are typical coastal plain sediments, and one on the crystalline rock of the Piedmont upland. Matapeake-Mattapex-Woodstown soils occur on low marine terraces, and have formed from sand, silt, and clay that originated in the lower Coastal Plain. Poorly drained to well-drained, level, Beltsville-Elkton-Sassafras soils comprise the principal association at the installation; historically, these sandy soils were considered prime for cultivation of tobacco and grains. In 1963, approximately 19 per cent of the installation (1,600 ac) still was classified as prime farmland.<sup>5</sup>

The Hilly and Steep land-Woodstown-Matapeake association is present primarily along escarpments and steep slopes near streams in the lower Coastal Plain; at Fort Belvoir, these soils are found along the headwaters of Dogue Creek in the area around the Humphreys Engineer Center (HEC). Louisburg-Appling-Worsham soils characterize the Accotink drainage; soils in this association also are found principally on hilly and steep relief terrain.<sup>6</sup> Historically, the heavily wooded slopes of the Belvoir peninsula were exploited for their timber.

Fort Belvoir's soils are ranked as "slight," "moderate," and "severe" in terms of the difficulties they pose for contemporary site development. Soils with the greatest potential for creating development problems generally are located along streams, creeks, and waterways; in general, these areas have been left as "unimproved" or have been utilized for specialized training activities like bridge building and amphibious landing practice.

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*Vegetation.* Approximately 47 per cent (4,100 acres) of the installation consists of unimproved, naturally vegetated areas and ponds. Secondary growth forests cover the most of the unimproved areas of the Post, including much of the North Post and the western portion of the South Post. A mixture of oak, pine, bottomland hardwood, oak-poplar, and sweet gum-poplar characterizes the primary species represented.<sup>7</sup>

*Cultural context.* The long history of human use of the land that today comprises Fort Belvoir has produced the installation's present landscape. Prehistoric peoples traversed the region as early as 10,000 years ago, and some permanent to semi-permanent prehistoric villages, accompanied by rudimentary agriculture, may have been established in the region as early as 2,100 before present. Such settlements would have been confined largely to broad stream floodplains or along the Potomac River shoreline. The type of agriculture practiced by the aboriginal inhabitants of this region involved only minimal changes to the area's topography or vegetational cover.

Some permanent Euro-American settlement occurred in the Belvoir area during the late seventeenth century. Full agricultural development of the Potomac River shoreline and adjacent interior areas began during the eighteenth century, when the core 2,000 acre area of present-day Fort Belvoir was developed as William Fairfax's plantation of Belvoir Manor.

The primary landuse in the Belvoir area through the end of the nineteenth century was farming. On eighteenth and early nineteenth century plantations, relatively level areas of arable soils were cleared, while steeply sloped sections remained largely uncleared and served as pasture land or so-called "timber lots." Towards the middle of the nineteenth century, the large landholdings that characterized the plantation period were subdivided and converted into small farms, a process that continued for nearly a century thereafter. Urban and industrial development was confined to the development of small villages, like Accotink, that coalesced around the intersections of major improved roads and/or the locations of small industrial enterprises like grist- and sawmills. Because of the increased numbers of small farms, land development was somewhat more intensive, but the primary elements of landscape modification remained primarily timber harvesting, small-scale agriculture, and construction of transportation networks, principally roads.

In 1910, the Federal government acquired 1,500 acres of the former Belvoir plantation. The United States Army first used the Belvoir peninsula in 1915 as a summer training camp and rifle range for engineers stationed at Washington Barracks (now Fort McNair). In 1917, the training camp was modified to become a major installation known as Camp A. A. Humphreys,<sup>8</sup> and it gained permanent status after World War I as the Army's Engineer Training Center. The installation's physical plant and geographic area expanded continuously through the end of U.S. involvement in Vietnam (1975).

The establishment and expansion of the major military installation resulted in major modifications to the previously agrarian cultural landscape of southeastern Fairfax County. The many small farms that had characterized the area were eliminated, and their owners were moved elsewhere. New transportation networks were expanded into the area and existing roads were improved. To provide suitable sites for building the structures needed to house, administer, and train large numbers of military personnel, large land areas were graded and filled, and designated training activity areas were established. The effects of these military activities still are visible today in the historic buildings and "created" landscapes that punctuate areas of the Post; in features, such as the road-bed of the Camp Humphreys railroad spur line with its attendant bridges and abutments; in landscape features, such as the military training trenches and former obstacle courses that still can be found in relatively undeveloped areas of the installation; and in the cemeteries and archeological

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signatures of the eighteenth and nineteenth century farm complexes that dot Fort Belvoir's present landscape.

### Previous Cultural Resources Investigations

Fort Belvoir's current inventory of cultural resources is the result of a series of investigations undertaken to identify and evaluate significant archeological and architectural resources within the installation boundaries. Although interest in, and identification of, historic resources at the installation began during the 1920s, systematic programs of site identification and evaluation were not initiated until the 1980s. The reports that document these identification and evaluation studies are housed in various repositories, including the Virginia Department of Historic Resources (VDHR), the Archaeological Services Branch of the Fairfax County Park Authority, the Virginia Department of Transportation (VDOT), the Directorate of Installation Support (DIS) at Fort Belvoir, and the Environmental Division of the Humphreys Engineer Center (HEC). Tables 2 and 3 present an annotated listing of all known archeological and architectural projects undertaken at the installation, including the Engineer Proving Ground (EPG)(Appendix V), since ca. 1960.

Archeological Investigations. Fort Belvoir's archeological resources have been investigated for over 70 years. These studies have included:

- Investigations of William Fairfax's eighteenth century plantation, Belvoir Manor, beginning with the 1930s excavations that resulted in the designation of the installation as Fort Belvoir. Subsequent studies<sup>9, 10, 11</sup> placed the Belvoir Manor Ruins and Fairfax Gravesites on the National Register of Historic Places and provided data for public interpretation.
- Identification reconnaissance surveys during the 1950s and 1960s by interested individuals assigned to the installation, resulted in the recordation of prehistoric archeological sites with the Virginia Department of Historic Resources.
- Systematic efforts to identify and to evaluate all of the historic cultural resources at Fort Belvoir (Table 1). To date, there have been seven such comprehensive studies (Table 2). Of 15 Section 106 compliance files at the DIS, the Virginia Department of Historic Resources (VDHR) concurred with seven Findings of No Effect or No Significant Effect (FONSI) based on these surveys (Appendix IV).
- A disturbance study, an historic context, and an archeological reconnaissance and identification study for all previously unsurveyed and undisturbed areas of the installation.<sup>12, 13, 14, 15, 16</sup> Figure 4a depicts the surveyed and unsurveyed areas of the installation, utilizing data obtained from the above-cited reports, and including additional survey efforts since 1992. Except for a small area adjacent to Davison Air Field, all areas labeled as "unsurveyed" apparently were assessed as "disturbed." In 1994, VDHR confirmed that Fort Belvoir had satisfactorily completed archeological identification studies for the installation.<sup>17</sup>
- Identification and/or evaluation studies for project-specific undertakings, including those commissioned by the installation for Section 106 compliance

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and those undertaken by civilian agencies (e.g., the Virginia Department of Transportation [VDOT]) and other military agencies (e.g., the HEC).

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Figure 4a.

Unavailable at this time, the map can be obtained by contacting the Fort Belvoir Environmental Natural Resource Department.

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- Creation of a Geographic Information System (GIS) planning layer for the installation's Environmental and Natural Resources Branch,<sup>18</sup> utilizing the Armed Forces Tri-Service Spatial Data Standards. At the time of that review, the installation contained 301 identified archeological sites; the one site (Belvoir Manor Ruins and Fairfax Gravesite [44FX4]) that is listed in the National Register of Historic Places; and 10 sites (out of 40 whose eligibility had been assessed) that have been assessed as eligible for listing in the National Register.<sup>19</sup> Since that study, one additional site has been recorded, raising the total number of sites to 302, in addition three more sites were evaluated, raising the total to 11 eligible sites.

Architectural and Historical Investigations. Numerous architectural and historical investigations have been completed at Fort Belvoir (Table 2). These include:

- reconnaissance-level architectural surveys and historic building evaluation studies<sup>20, 21</sup>.
- preparation and revisions of National Register nominations for the Fort Belvoir Historic District, the U.S. Army Package Power Reactor, the Camp A.A. Humphreys Pump Station and Filter Building, and the Thermo-Con House).<sup>22, 23, 24</sup>
- preparation of a Historic Preservation Plan<sup>25</sup>
- building-specific studies, including conditions assessment surveys and Historic Quarters Component Guidebooks;<sup>26, 27, 28</sup> and
- nationwide studies of military installations.

Table 3 presents an annotated list of the architectural identification and evaluation studies and National Register nominations.

Relevant Agreements. The nationwide studies listed in the table are particularly relevant to the built resources at Fort Belvoir. Between 1986 and 1992, the Department of Defense (DoD) documented World War II mobilization temporary buildings (1939 to 1945) under the terms of a Programmatic Memorandum of Agreement (PMOA) among the DoD, the Advisory Council on Historic Preservation (ACHP), and the National Conference of State Historic Preservation Officers (NCSHPO). The PMOA was precipitated by a Congressional directive authorizing the demolition of World War II temporary buildings at DoD facilities. DoD determined that these resources might meet the Criteria of Eligibility for the National Register of Historic Places (36 CFR 60.4). The PMOA, negotiated to mitigate the removal of the buildings, included the preparation of Historic American Building Survey/Historic American Engineering Record (HABS/HAER) documentation on prototypical World War II temporary building types. The PMOA satisfied DoD's Section 106 responsibilities for considering World War II temporary buildings.

At Fort Belvoir, VDHR reviewed the installation's collection of World War II temporary structures and found that all were included under the provisions of the PMOA. Many of Fort Belvoir's World War II temporary structures since have been removed and replaced with permanent structures.

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Guidance Documents. Cold War studies also have been undertaken as part of Legacy's Cold War Task Area. One study, *Thematic Study and Guidelines: Identification and Evaluation of U.S. Army Cold War Era Military-Industrial Historic Properties*,<sup>29</sup> presents a national historic context for the U.S. Army's military-industrial involvement during the Cold War (1946-1989). According to the evaluation criteria, resources of exceptional significance under Criterion Consideration G include those properties with a **direct association** with major Army activities and missions. Resources constructed as administrative, maintenance, storage, and housing and community support structures generally do not satisfy the criterion consideration. The study is useful for cultural resources managers at Fort Belvoir in assessing the relative significance of the installation's Cold War resources that may be eligible for listing in the National Register.<sup>30</sup>

## **Inventory of Archeological Resources at Fort Belvoir**

### Documented Archeological Resources

A total of 302 archeological sites have been identified at Fort Belvoir.<sup>31, 32, 33, 34, 35</sup> One archeological site, the Belvoir Manor Ruins and Fairfax Gravesite (44FX4), is listed in the National Register of Historic Places. The site represents the eighteenth century plantation complex built by William Fairfax, and includes the remains of the manor house, the plantation office; the kitchen/laundry building; a stable/coach house; two garden houses; the brick clamps utilized during construction of the manor house; and the gravesite of William Fairfax and his second wife.

A total of 177 archeological sites at Fort Belvoir have been assessed as potentially eligible for listing in the National Register,<sup>36, 37</sup> but have not been assessed to determine their National Register eligibility. Although these sites are found in all undeveloped or lightly developed areas of the installation, the most intensive concentration lies within former training areas on Pohick Neck between Accotink and Pohick creeks. Forty-three sites have been evaluated formally to assess their eligibility for listing in the National Register; of these, 11 have been assessed as National Register eligible. Table 4 presents summary data on the status of all archeological resources on the installation; Table 5 presents basic data for the National Register eligible sites.

**Table 4: Summary of Archeological Site Eligibility and Assessment Status, U. S. Army Garrison Fort Belvoir, Virginia**

| <b>Register /Evaluation Status</b>  | <b>Number</b> | <b>Per Cent</b> |
|-------------------------------------|---------------|-----------------|
| Determined not eligible             | 113           | 37.4            |
| Potentially eligible; not evaluated | 177           | 58.6            |
| Determined eligible                 | 11            | 3.6             |
| Register listed                     | 1             | 0.3             |
| <b>Totals</b>                       | <b>302</b>    | <b>99.9</b>     |



**Table 5. National Register Listed, Eligible, and Potentially Eligible Archeological Sites at Fort Belvoir**

| <b>Site Number</b>        | <b>Site Chronology</b>                                             | <b>Site Type/Function</b>                    | <b>Investigators</b>                                                | <b>Comments</b>                                    |
|---------------------------|--------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| 44FX4                     | Historic: 18th century                                             | Plantation Complex                           | Shott; MAAR.; JRI, Inc.                                             | <b>Listed in National Register, 1973</b>           |
| 44FX12                    | Prehistoric: Early Archaic - Late Woodland                         | Seasonal occupation site                     | MAAR, Inc.; Fairfax County Heritage Resources: RCG&A                | Tested/evaluated                                   |
| 44FX1305                  | Prehistoric: Middle Archaic - Early Woodland                       | Unidentified                                 | MAAR, Inc.; Fairfax County Heritage Resources: RCG&A                | Tested/evaluated                                   |
| 44FX1309                  | Prehistoric: Middle Archaic - Late Woodland                        | Unidentified                                 | MAAR, Inc.; Fairfax County Heritage Resources: RCG&A                | Tested/evaluated                                   |
| 44FX1314                  | Prehistoric: Middle Archaic - Late Woodland                        | Unidentified                                 | MAAR, Inc.; Fairfax County Heritage Resources: RCG&A                | Tested/evaluated                                   |
| 44FX1328                  | Prehistoric: Late Archaic - Early Woodland Historic: 18th century  | Prehistoric: Unidentified Historic: domestic | MAAR, Inc.; Fairfax County Heritage Resources; Dames and Moore 1999 | Combined with 44FX1327; Mitigated                  |
| 44FX1340                  | Prehistoric: Middle Archaic - Late Woodland Historic: 18th century | Prehistoric: Unidentified Historic: domestic | MAAR, Inc.; Fairfax County Heritages Resources; RCG&A               | Evaluated; eroding                                 |
| 44FX1505                  | Historic: 20th century                                             | Military training trenches                   | MAAR, Inc.; Milner                                                  | Evaluated                                          |
| 44FX1677                  | Historic: 19th century                                             | Domestic                                     | MAAR, Inc.; Milner                                                  | Evaluated                                          |
| 44FX1908                  | Prehistoric: Early - Mid Woodland                                  | Unidentified                                 | MAAR, Inc.; Milner                                                  | Evaluated                                          |
| 44FX1925                  | Prehistoric: Late Archaic Early Woodland                           | Unidentified                                 | MAAR, Inc., RCG&A                                                   | Evaluated                                          |
| 44FX457                   | Prehistoric                                                        | camp                                         | Karell Associates                                                   | Mitigated/Excavated; Destroyed Fairfax Co. Parkway |
| Accotink Prehistoric Site | Prehistoric                                                        | camp                                         | Karell Associates                                                   | Mitigated/Excavated; Destroyed Fairfax Co. Parkway |
| Kernan Run Site           | Prehistoric                                                        | Unknown                                      | Karell Associates                                                   | Mitigated/Excavated; Destroyed Fairfax Co. Parkway |
| 44FX9                     | Prehistoric                                                        | Unidentified                                 | Unidentified                                                        | Tested (Phase I); unevaluated                      |
| 44FX10                    | Prehistoric: Late Archaic                                          | Unidentified                                 | Unidentified                                                        | Tested (Phase I); unevaluated                      |
| 44FX11                    | Prehistoric                                                        | Unidentified                                 | Unidentified                                                        | Tested (Phase I); unevaluated                      |
| 44FX35                    | Prehistoric                                                        | Unidentified                                 | Unidentified                                                        | Tested (Phase I);                                  |

|          |             |              |                         |                                  |
|----------|-------------|--------------|-------------------------|----------------------------------|
|          |             |              |                         | unevaluated                      |
| 44FX459  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX 461 | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX545  | Prehistoric | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX627  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX629  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX631  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX637  | Prehistoric | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX640  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX641  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX642  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX663  | Prehistoric | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX669  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX681  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX682  | Prehistoric | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX705  | Prehistoric | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX739  | Historic    | Unidentified | Soil Systems, Inc. 1983 | Tested (Phase I);<br>unevaluated |
| 44FX1080 | Historic    | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1303 | Historic    | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1310 | Prehistoric | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1318 | Historic    | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1319 | Historic    | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1320 | Prehistoric | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1321 | Historic    | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1326 | Historic    | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1330 | Prehistoric | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |
| 44FX1330 | Prehistoric | Unidentified | Unidentified            | Tested (Phase I);<br>unevaluated |

|          |                       |              |              |                                  |
|----------|-----------------------|--------------|--------------|----------------------------------|
| 44FX1331 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1335 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1336 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1337 | Historic              | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1339 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1341 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1342 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1357 | Prehistoric           | Unidentified | Unidentified | Tested (Phase I);<br>unevaluated |
| 44FX1433 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1500 | Historic; Prehistoric | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1502 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1503 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1589 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1630 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1631 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1632 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1633 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1635 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1636 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1638 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1642 | Historic              | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1645 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1646 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1655 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1656 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |
| 44FX1659 | Prehistoric           | Unidentified | MAAR, Inc.   | Tested (Phase I);<br>unevaluated |

|          |             |              |            |                                  |
|----------|-------------|--------------|------------|----------------------------------|
| 44FX1687 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1693 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1697 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1700 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1701 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1704 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1705 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1707 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1711 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1712 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1718 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1723 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1808 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1809 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1810 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1811 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1812 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1815 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1816 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1900 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1901 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1902 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1902 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1903 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1904 | Prehistoric | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |
| 44FX1905 | Historic    | Unidentified | MAAR, Inc. | Tested (Phase I);<br>unevaluated |

|          |                                    |                   |                           |                                  |
|----------|------------------------------------|-------------------|---------------------------|----------------------------------|
| 44FX1909 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1910 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1914 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1917 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1919 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1920 | Historic                           | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1921 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1927 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1929 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1930 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1931 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1933 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1934 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1935 | Prehistoric: Late<br>Woodland      | Unidentified      | MAAR, Inc.                | Excavated                        |
| 44FX1936 | Historic                           | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1939 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1941 | Historic                           | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1945 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1946 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1948 | Historic                           | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX1949 | Prehistoric                        | Unidentified      | MAAR, Inc.                | Tested (Phase I);<br>unevaluated |
| 44FX2230 | Historic: 20th century<br>military | training trenches | Simons and Williams, 1997 | Tested (Phase I);<br>unevaluated |

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## Summary Assessment: Archeological Resources

Fort Belvoir has virtually completed archeological resource identification for the entire installation (Figure 4a). In addition, the installation has completed an extensive series of site evaluation studies (Table 1).<sup>38</sup> Archeological issues yet to be resolved include:

- Lack of a systematic identification survey for Area R-1 on the southeastern perimeter of Davison Airfield, an area for which access previously was restricted.
- Resurvey and site delineation of all unevaluated identified sites. The nature of previous archeological surveys has left in doubt the presence or absence and boundaries of archeological sites in certain areas.
- Assessment of the National Register eligibility of all sites identified as "potentially eligible," in light of possible adverse impacts from natural forces like shoreline erosion, or the effects of undertakings such as building construction, demolition, or maintenance; road or utility line replacement or modification; or training activities.
- Stabilization, interpretation, and redefinition of the boundaries of the Belvoir Manor Ruins and Fairfax Grave Site (44FX4) to reduce continued site erosion and to reflect the results of additional site testing.
- Consolidation of all archeological collections and related records recovered from Fort Belvoir and storage in an archivally stable curation facility that meets current Federal standards (36 CFR 79).
  - Collections presently are housed at the (Fairfax) County Park Authority Archaeological Services facility, at academic institutions, with private contractors, and in various installation storage areas.<sup>39</sup>
  - Field records and other archeological documentation are missing from archeological collections.

## Inventory of Architectural Resources at Fort Belvoir

Fort Belvoir's current identification and evaluation efforts have included reconnaissance-level architectural surveys of all buildings and structures constructed prior to 1946; development of appropriate historic contexts; preparation of National Register nominations; and conditions assessments of specific buildings. A comprehensive assessment of the installation's Cold War resources (1946 - 1989) has not yet been conducted, although some buildings from that era located adjacent to or inside the boundaries of the Fort Belvoir Historic District have been evaluated.<sup>40</sup>

National Register nominations completed to date at Fort Belvoir include the Fort Belvoir Historic District; one multiple property, the U.S. Army Package Power Reactor (SM-1 Plant); and two individual properties, the Camp A. A. Humphreys Pump Station and Filter Building and the Thermo-Con House. These nominations, although the resources considered National Register

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eligible, have not been submitted to the National Register program; however, the resources have been listed on the Virginia Landmarks Register (Appendix IV).<sup>41</sup> Table 6 contains the current inventory of all historic properties that have been determined eligible for inclusion in the National Register of Historic Places; Figures 4b and 5 depict the locations of these National Register-eligible resources, which include:

- The Fort Belvoir Historic District. The Fort Belvoir Historic District encompasses a group of 196 contributing buildings and 11 non-contributing structures, including the parade ground and associated landscape features, that form the administrative and residential core of the Post. Significant under Criterion A for its Colonial Revival Style architecture and community planning, most of the buildings within the district were constructed during the 1930s and 1940s. Characteristic features of these buildings include symmetrical facades, brick exteriors, and limestone detailing.<sup>41</sup> The plan of the administrative and residential areas, including the formal parade ground and curvilinear residential streets, is an integral part of the historic district. The district's large rectangular parade ground, the central focus around which most of the administrative buildings are oriented, typifies military post planning principles during the late 1920s and 1930s. Command and administration buildings are aligned along the east side, and barracks and related recreational structures are located along the western edge of the parade grounds.<sup>43</sup> Non-commissioned officers' (NCO) family housing is located west of the parade ground, behind the barracks (Figure 6). The boulevard terminates in a semi-circular drive at the NCO Club (Building 184). Two clusters of officers' housing, consisting of a group of 1920s officers' housing and a group of 1930s senior officers' housing, lie north and east of the parade ground. The senior officers' housing complex resembles a 1930s garden-suburb, with its substantial, two and one-half story brick Colonial Revival residences along curvilinear roads. Its layout takes advantage of the natural topography and vistas of the Potomac. Two principal residential buildings in the district, the Commanding Officers Quarters (Building 1) and the Officer's Club (Figure 7), are sited on promontories overlooking the river.
- The U.S. Army Package (Nuclear) Power Reactor Multiple Property. Constructed in 1957, the U.S. Army Package (Nuclear) Power Reactor possesses exceptional significance as the Army's first prototype nuclear generating plant (Criterion A and G). Developed as a training facility for military personnel, the complex occupies a 30-acre fenced area that encloses the SM-1 Plant (Building 372) and several support buildings (Figure 8). Construction of the reactor was the first major accomplishment of the Army's Nuclear Power Division (NPD), represents an important transition into the advanced technology of atomic power. It also represents the first water-pressurized reactor to be brought on-line in the United States. The decision to build the plant at the Engineer Center is consistent with the installation's historical position as the Army's premiere engineering research and development center. Developed jointly by the Atomic Energy Commission (AEC) and the DoD as an air-transportable power plant to meet the requirements and site conditions of remote military bases, the SM-1 Plant also served as the national nuclear training facility for military personnel.<sup>44,</sup>

<sup>45, 46</sup>

**Table 6. National Register Eligible Built Resources at U.S. Army Garrison Fort Belvoir (1997)\***

| <b>Building No.</b> | <b>Building Name</b>            | <b>Date</b> | <b>National Register Status</b>             | <b>Survey Type/Date</b> |
|---------------------|---------------------------------|-------------|---------------------------------------------|-------------------------|
| 1                   | Commanding Officer's Quarters   | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 2                   | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 3                   | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 4                   | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 5                   | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 6                   | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 7                   | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996         |
| 7A                  | Transformer (Quarters 7 & 8)    | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 8                   | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 9                   | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 10                  | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 11                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 12                  | Officer Family Housing (Type B) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 13                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 14                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 15                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 15A                 | Tennis Courts                   | 1950        | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996         |
| 15B                 | Transformer (Quarters 16 & 17)  | 1935        | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996         |
| 16                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 17                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 18                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 19                  | Officer Family Housing (Type B) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 20                  | MacKenzie Hall                  | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 21                  | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 22                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 23                  | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 24                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 25                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 26                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 27                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 28                  | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 29                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 30                  | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 31                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 32                  | Officer Family Housing (Type A) | 1935        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 33                  | Officer Family Housing (Type A) | 1934        | Fort Belvoir H.D. - Contributing            | HABS, 1984              |
| 33A                 | Transformer                     | 1943        | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996         |



|     |                                 |      |                                             |                 |
|-----|---------------------------------|------|---------------------------------------------|-----------------|
| 34  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 35  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 36  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 37  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 38  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 39  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 40  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 41  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 42  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 43  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 44  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 45  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 46  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 47  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 48  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 49  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 50  | Officer Family Housing (Type A) | 1935 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 51  | Officer Family Housing (Type A) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 51A | Transformer                     | 1935 | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996 |
| 52  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 53  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 54  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 55  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 56  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 57  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 58  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 59  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 60  | Officer Family Housing (Type B) | 1934 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 67  | Officers Quarters               | 1935 | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996 |
| 68  | Officers Quarters               | 1935 | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996 |
| 68A | Transformer                     | 1949 | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996 |
| 73  | Detached Garage                 | 1949 | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996 |
| 101 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 102 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 103 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 104 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 105 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 106 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 107 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 108 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |
| 109 | NCO Family Housing              | 1930 | Fort Belvoir H.D. - Contributing            | HABS, 1984      |



|      |                                  |      |                                  |                      |
|------|----------------------------------|------|----------------------------------|----------------------|
| 149  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 150  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 151  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 152  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 153  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 155  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 157  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 157A | Transformer (Quarters 157)       | 1935 | Fort Belvoir H.D. - Contributing | FBHD Nom., 1996      |
| 159  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 161  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 162  | NCO Family Housing               | 1934 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 163  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 164  | NCO Family Housing               | 1934 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 165  | NCO Family Housing               | 1931 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 166  | NCO Family Housing               | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 167  | NCO Family Housing               | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 168  | NCO Family Housing               | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 169  | NCO Family Housing               | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 170  | NCO Family Housing               | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 171  | NCO Family Housing               | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 172  | "Thermo-Con" House               | 1948 | Individual NR Eligible           | Thermo-Con Nom. 1995 |
| 173  | Detached Garage                  | 1940 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 174  | Detached Garage                  | 1940 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 175  | Detached Garage                  | 1940 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 176  | Detached Garage                  | 1940 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 177  | Detached Garage                  | 1940 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 178  | Detached Garage                  | 1940 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 184  | NCO Club (Club 7, 8, 9)          | 1939 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 188  | Water Storage Tank               | 1918 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 191  | Fire Station                     | 1934 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 201  | Wilson Hall-Administration       | 1928 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 202  | MacArthur Hall - Defense Systems | 1928 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
|      | Management College               |      |                                  |                      |
| 203  | Barracks w/o Mess                | 1928 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 204  | General Instruction Building     | 1928 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 205  | General Instruction Building     | 1928 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 206  | Barracks w/o Mess                | 1928 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 207  | General Instruction Building     | 1929 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 208  | Barracks w/o Mess                | 1929 | Fort Belvoir H.D. - Contributing | HABS, 1984           |
| 109  | General Instruction Building     | 1929 | Fort Belvoir H.D. - Contributing | HABS, 1984           |

|       |                                        |         |                                             |                  |
|-------|----------------------------------------|---------|---------------------------------------------|------------------|
| 210   | Barracks w/o Mess                      | 1934    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 211   | Barracks w/o Mess                      | 1940    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 212   | Barracks w/o Mess                      | 1940    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 213   | Barracks w/o Mess                      | 1940    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| S-214 | Bagley Hall                            | 1941    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| S-215 | Educational Building                   | 1941    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 216   | Flagler Hall-Civilian Personnel Office | 1932    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 216A  | Flagpole                               | 1976    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| 217   | Detached Garage                        | 1932    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 218   | Monument                               | 1967    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| 219   | Essayons Theater and Administration    | 1931    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 226   | Battalion Headquarters                 | 1957    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| S-231 | Consolidated Mess #1                   | 1968    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| 235   | Battalion Headquarters                 | 1965    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| 240*  | Wallace Theater                        | 1950    | Fort Belvoir H.D. - Contributing*           | Survey 1996      |
| 245   | Baseball Field                         | 1950    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| 246   | Communications Electronics Building    | 1951    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996  |
| 256   | Main Post Office                       | 1935    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 257   | Hill Hall - Judge Advocate's Office    | 1935    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 258   | Administration Offices                 | 1935    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 268   | Williams Hall - Printing Facility      | 1935    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 269   | Abbot Hall - Post Headquarters         | 1935    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 270   | Thayer Hall - General Instruction      | 1935    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 350   | Sewage Pump Station                    | c. 1962 | SM-1 Plant M.P. - Contributing              | SM-1 Nom. 1996   |
| 372   | SM-1 Nuclear Power Plant               | 1957    | SM-1 Plant M.P. - Contributing              | SM-1 Nom. 1996   |
| 373   | Sentry Station/Emergency Siren         | c. 1960 | SM-1 Plant M.P. - Contributing              | SM-1 Nom. 1996   |
| 375   | Pumphouse                              | c. 1961 | SM-1 Plant M.P. - Contributing              | SM-1 Nom. 1996   |
| 376   | Waste Retention Building               | c. 1961 | SM-1 Plant M.P. - Contributing              | SM-1 Nom. 1996   |
| 384   | Electronic Equipment Facility          | c. 1964 | SM-1 Plant M.P. - Contributing              | SM-1 Nom. 1996   |
| T-435 | Fairfax Chapel                         | 1941    | Fort Belvoir H.D. - Contributing            | HABS, 1984, 1992 |
| T-436 | Officer Family Housing                 | 1921    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| T-437 | Officer Family Housing                 | 1921    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| T-438 | Officer Family Housing                 | 1921    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| T-439 | Officer Family Housing                 | 1921    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| T-440 | Officer Family Housing                 | 1921    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| T-441 | Officer Family Housing                 | 1921    | Fort Belvoir H.D. - Contributing            | HABS, 1984       |
| 443   | Detached Garage                        | 1940    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996  |
| 444   | Detached Garage                        | 1940    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996  |

|        |                             |         |                                             |                               |
|--------|-----------------------------|---------|---------------------------------------------|-------------------------------|
| 445    | Detached Garage             | 1940    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| 446    | Detached Garage             | 1940    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| T-498A | Ballfields                  | 1955    | Fort Belvoir H.D. - <b>Non-Contributing</b> | FBHD Nom., 1996               |
| 500    | Housing                     | 1934    | Fort Belvoir H.D. - Contributing            | HABS, 1984                    |
| 500A   | Transformer Vault           | 1935    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| 501    | Housing                     | 1934    | Fort Belvoir H.D. - Contributing            | HABS, 1984                    |
| 502    | Housing                     | 1934    | Fort Belvoir H.D. - Contributing            | HABS, 1984                    |
| 503    | Housing                     | 1934    | Fort Belvoir H.D. - Contributing            | HABS, 1984                    |
| 1024*  | Van Noy Library             | 1949    | Fort Belvoir H.D. - Contributing*           | Survey, 1996                  |
| 1124   | Gas Station                 | 1934    | Fort Belvoir H.D. - Contributing            | Survey, 1996                  |
| T-1139 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| T-1140 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| T-1141 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| T-1142 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| T-1143 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| T-1144 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| T-1145 | General Purpose Warehouse   | 1917    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| 1150   | PX Administration           | 1934    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| 1150A  | Transformer Vault           | 1935    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| 1156   | Substation                  | 1935    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| 1157   | Stand-by Generator          | 1929    | Fort Belvoir H.D. - Contributing            | HABS, 1984, FBHD<br>Nom. 1996 |
| 1158   | Electric Storage            | 1935    | Fort Belvoir H.D. - Contributing            | FBHD Nom., 1996               |
| 1400   | Water Filtration Plant      | 1918    | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1404   | Pump Station Complex        | 1941    | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1405   | Pump Station Complex        | 1941    | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1407   | Pump Station Complex        | 1935    | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1408   | Pump Station Complex        | 1941    | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1411   | Pump Station Complex        | c. 1942 | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1421   | Pump Station Complex        | c. 1942 | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 1424   | Pump House                  | 1936    | Humphreys Pump Station MP                   | 1400 Nom., 1996               |
| 5090** | Fixed Ammo. Magazine/EPG    | 1948    | SM-1 Plant M.P. - Contributing*             | Survey, 1996                  |
| 5092** | Fixed Ammo. Magazine/EPG    | 1948    | SM-1 Plant M.P. - Contributing*             | Survey, 1996                  |
| 5094** | High Explosive Magazine/EPG | 1948    | SM-1 Plant M.P. - Contributing*             | Survey, 1996                  |
|        |                             |         |                                             |                               |

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## **ABBREVIATIONS:**

H.D.: Historic District

M.P.: Multiple Property

NR: National Register

HABS: Historic American Buildings Survey

FBHD Nom.: Fort Belvoir Historic District National Register Nomination

1400 Nom.: Camp AA Humphreys Pump Station and Filter Building NR Nomination

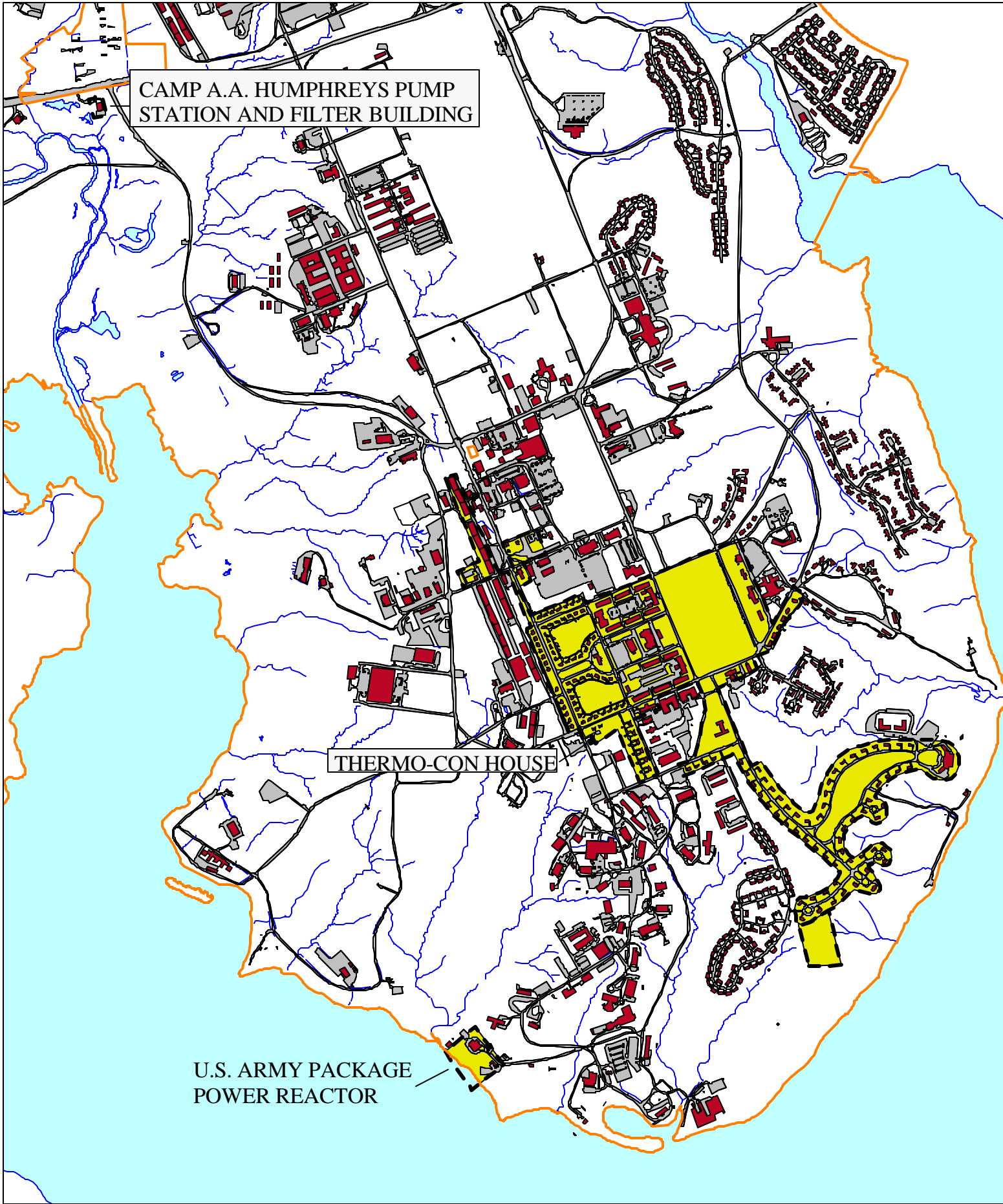
SM-1 Nom.: US Army Package Power Reactor National Register Nomination





Thermo-Con Nom.: Thermo Con House National Register Nomination

Survey 1996: Fort Belvoir Historic Building Survey

\* Identification of additional potentially eligible buildings at Fort Belvoir would require complete survey of all buildings and structures constructed prior to 1951. This table reflects determinations only for buildings within this category that have been surveyed.

\*\*Reflects buildings surveyed in 1996 by Harnsberger and Associates, Architects, that are not included in the current SM-1 Plant National Register nomination.



-  Installation Boundary
-  Cultural Resource Boundaries
-  Existing Structure
-  Historic District Area



## FORT BELVOIR NATIONAL REGISTER AREAS



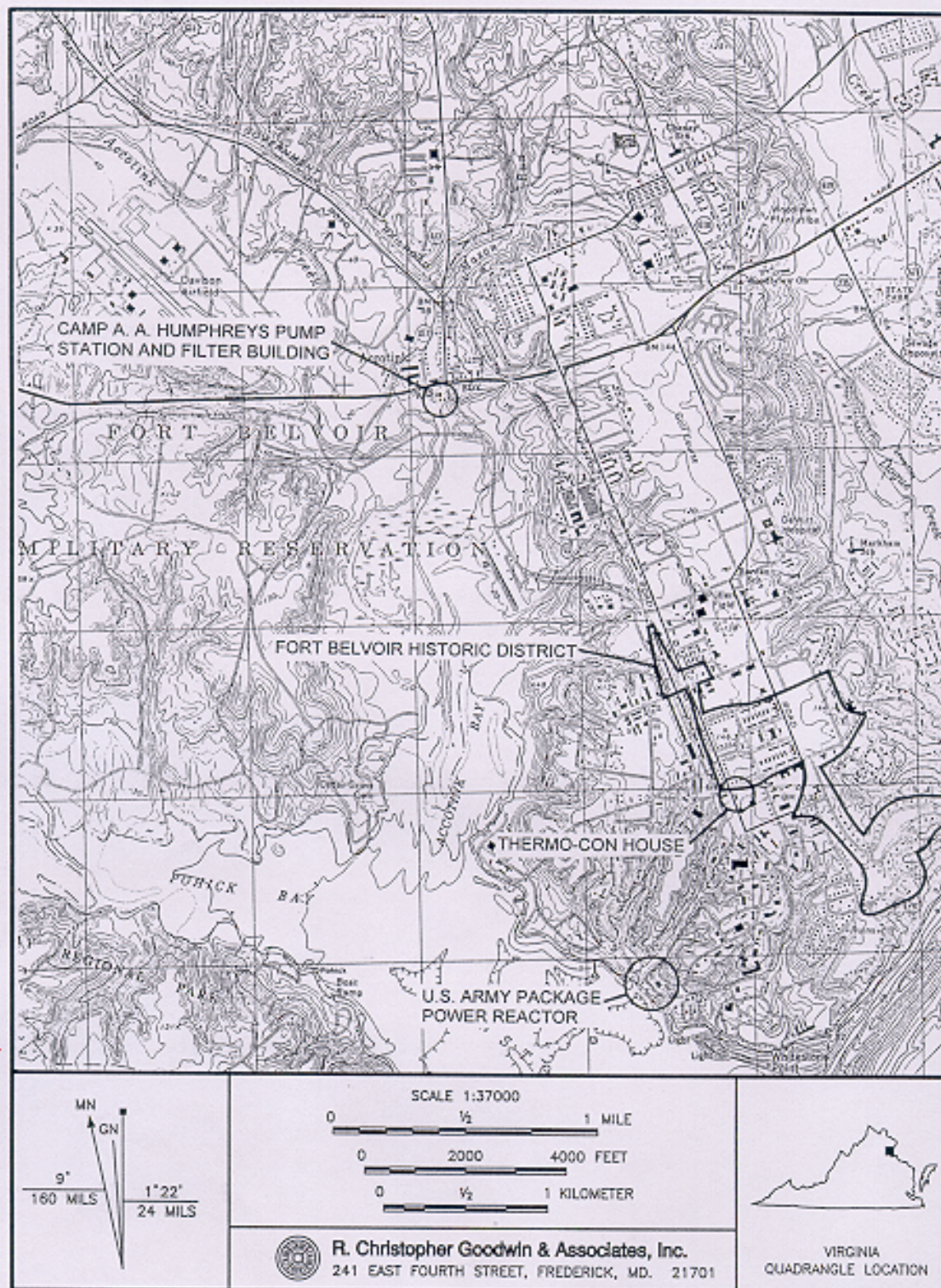


Figure 5. Excerpt from USGS Fort Belvoir, VA-MD 7.5' quadrangle, showing location of the Fort Belvoir Historic District, U. S. Army Package Power Reactor (SM-1 Plant) Multiple Property, and individual National Register eligible properties at Fort Belvoir.





Figure 6. View of Officers' and NCO housing units in the Fort Belvoir Historic District.



Figure 7. View of Officers' Club located within the Fort Belvoir Historic District.

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Figure 8. View of the U.S. Army Package Power Reactor Complex (SM-1 Plant) (Courtesy of Fort Belvoir History Office)

Unavailable at this time, the picture can be obtained by contacting the Fort Belvoir Environmental Natural Resource Department.

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- Camp A.A. Humphreys Pump Station and Filter Building. Constructed in 1918, the pump station and water filtration plant (Figure 9) is the Post's oldest permanent structure and one of the few remaining vestiges of Camp A.A. Humphreys. Situated at the southern edge of the Post along U.S Route 1, the Colonial Revival Style complex is significant under Criterion A for illustrating both the development of support facilities as part of the World War I cantonment construction campaign, and for technological advances in the purification of drinking water. The one-story pump station (Building 1424) was added in 1936.

The water filtration complex ceased to operate in 1970, and all large mechanical equipment was removed at that time. In 1986, when it was leased to Fairfax County for use as a homeless shelter, the vacant building was renovated in accordance with the Secretary of the Interior's *Standards for Rehabilitation* and in consultation with VDHR and the Advisory Council on Historic Preservation.<sup>47</sup>

- Thermo-Con House. The "Thermo-Con" House (Building 172) is distinguished from the surrounding residential development by its restrained International Style design. The two-story, flat-roofed concrete structure is located in a wooded section of the residential district, at the corner of 21<sup>st</sup> Street and Gunston Road (Figure 10). The Thermo-Con House was designed by the renowned Detroit architectural firm of Albert Kahn and Associates, Inc. The building was determined to possess exceptional significance under Criterion C for its unique method of construction.<sup>48, 49</sup>

The Thermo-Con House is the only structure of its kind built by the Army Corps of Engineers.<sup>50, 51</sup> The Army Corps of Engineers, Company "A," 410<sup>th</sup> Engineering Construction Battalion, erected the experimental structure in 1949 to test a cementitious material that used air or chemically injected concrete. The innovative method of construction was a prototype for creating lightweight, poured-in-place concrete structures to use as mass-produced housing.

### National Register Properties Located Outside Fort Belvoir's Boundaries

In addition to the resources mentioned above, four National Register-listed properties and one National Register-eligible property are located outside the boundaries of Fort Belvoir. Although Fort Belvoir does not own these properties, Federal law requires that the installation consider the potential effects of its undertakings on all National Register-eligible properties, including those adjacent to its boundaries, that may fall within the undertaking's "Area of Potential Effect." Any major undertaking by the installation should be assessed for its impact upon the following properties:

- Woodlawn Plantation, which encompasses the Woodlawn mansion and the Pope-Leighey House, was a wedding present from George Washington to his nephew, and was designed by William Thornton, first architect of the U.S. Capitol. The Pope-Leighy House, a Frank Lloyd Wright designed "Usonian" dwelling, was moved to Woodlawn Plantation from its original location in Falls Church.

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- Pohick Church, the parish church for the eighteenth century Anglican Truro Parish, was listed in the National Register in October 1969. The building is located on U.S. Route 1 at Old Colchester Road, immediately west of the installation.
  - The Woodlawn Friends' Meeting House, a pre-Civil War church and burial ground that is surrounded by the installation, was determined eligible for listing in the National Register in 1991. To date, no National Register nomination had been prepared for this property.<sup>52</sup>

The shoreline areas of Fort Belvoir also are part of the viewshed of a number of National Register sites along the Potomac River, including Washington's Mount Vernon. Undertakings proposed for these shoreline areas should be assessed for their direct or indirect impacts on the Potomac River viewshed.<sup>53</sup>

### Summary Assessment: Architectural Resources

Although Fort Belvoir has undertaken selected intensive-level studies of its built resources and has identified National Register eligible districts and structures, the application of current guidelines for resource identification and evaluation to existing data identified two areas that require additional consideration.

### The Fort Belvoir Historic District

- The boundary for the Fort Belvoir Historic District requires additional justification under current National Register standards. The current boundaries of the Fort Belvoir Historic District omit several clusters of officers' housing designed by Captain W.H. Peaslee, U.S. Army COE and Captain A.A. Hockman of the Quartermaster Corps for Camp A. A. Humphreys. These one-story, Arts-and-Crafts Style dwellings are similar to the collection of 1920s dwellings included in the current boundaries (Buildings T-436-T441).
- Portions of the family housing built as part of the 1930s expansion campaign also are not included in the current boundary delineation. These include the Jadwin Loop officers' quarters (Buildings 451-455).

### Cold War Properties

"Cold War" historic properties are buildings, structures, sites, objects, and districts "built, used or associated with critical events or persons during the "Cold War" period (1945 - 1989) and that possess exceptional importance to the nation or that are outstanding examples of technological or scientific achievement."<sup>54</sup> Cold War properties may qualify for exceptional significance if they meet one of the National Register criteria; possess national significance; **and** retain sufficient resource integrity. Resources constructed as administration, maintenance, storage, and housing and community support generally do not meet the criterion of exceptional significance, but they should be reevaluated when they reach the 50-year age criterion and sufficient historical perspective has been achieved.<sup>55</sup>





Figure 9. View of pump station and water filtration plant (Buildings 1400 and 1424).



Figure 10. View of the International style "Thermo-Con" House (Building 172).

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*National Register Bulletin 22: Guidelines for Evaluating and Nominating Properties that Have Achieved Significance within the Last Fifty Years*<sup>56</sup> sets forth the criteria for evaluating exceptional significance and resource integrity. The Department of the Army also has developed guidance for evaluating Cold War-era properties in DA-PAM 200-4 (Section 3-3.d(2)(b)). Other properties constructed during the Cold War period should be evaluated under other state and local contexts.

Although some of Fort Belvoir's Cold War-era resources (Buildings 172, 350, 372-373, 375-376, 384, 383, 776, 5090, 5092, and 5094) have been individually documented,<sup>57</sup> no comprehensive survey of buildings from this period has been conducted.



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